

WHAT IS CLAIMED IS:

1. A sleeve assembly of a fiber optical connector, the sleeve assembly being connectable to a bundle of optical fibers including one or more strands of optical fiber having an exposed end portion, a layer of insulating medium for surrounding the strands of optical fiber, and a buffer layer for surrounding the layer of insulating medium, the sleeve assembly comprising:

a sleeve comprising a hollow head including a top hole having a diameter slightly smaller than that of the strands of optical fiber, and a cavity in communication with the top hole, the cavity being adapted to receive the bundle of optical fibers, and a tube member including an axial channel, the tube member being formed to fasten the head at one end thereof by heating and cooling; and

a hollow, cylindrical base comprising a recess at one end for snugly receiving the other end of the tube member, and an axial tunnel in communication with the recess and the channel, the tunnel being adapted to receive the bundle of optical fibers,

whereby heating the head will expand the top hole for enabling an insertion of the strands of optical fiber through the top hole with the bundle of optical fibers received in the cavity, the channel, and the tunnel; and cooling the head will contract the top hole to fasten the strands of optical fiber, and using a tool to compress the base will decrease its diameter for fastening the bundle of optical fibers.

2. The sleeve assembly of claim 1, wherein the head further comprises a conic portion and a hollow, cylindrical bottom extension with the cavity received therein, and the tube member further comprises an end well for receiving the extension.

3. The sleeve assembly of claim 1, wherein the tube member further

comprises an end extension adapted to receive in the cavity.

4. The sleeve assembly of claim 1, wherein the tube member further comprises an end well for receiving the head.